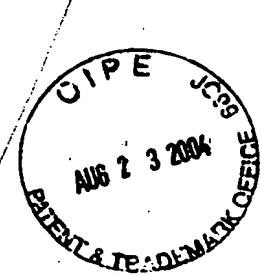
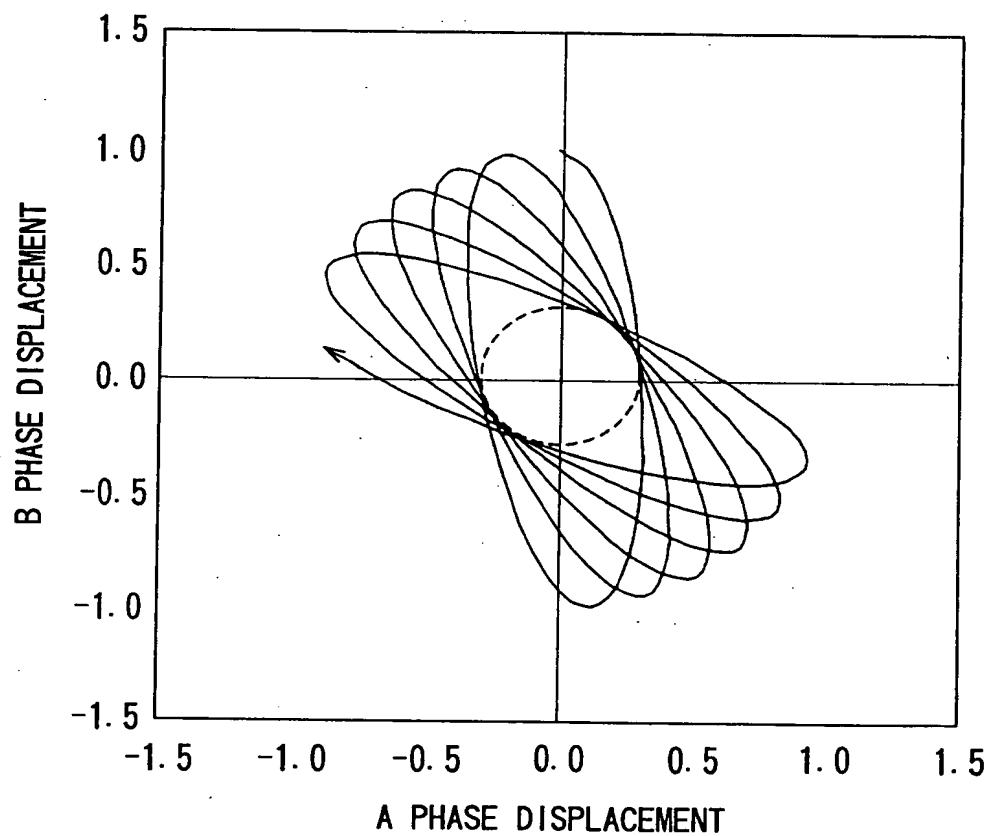


FIG.1



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FIG.2

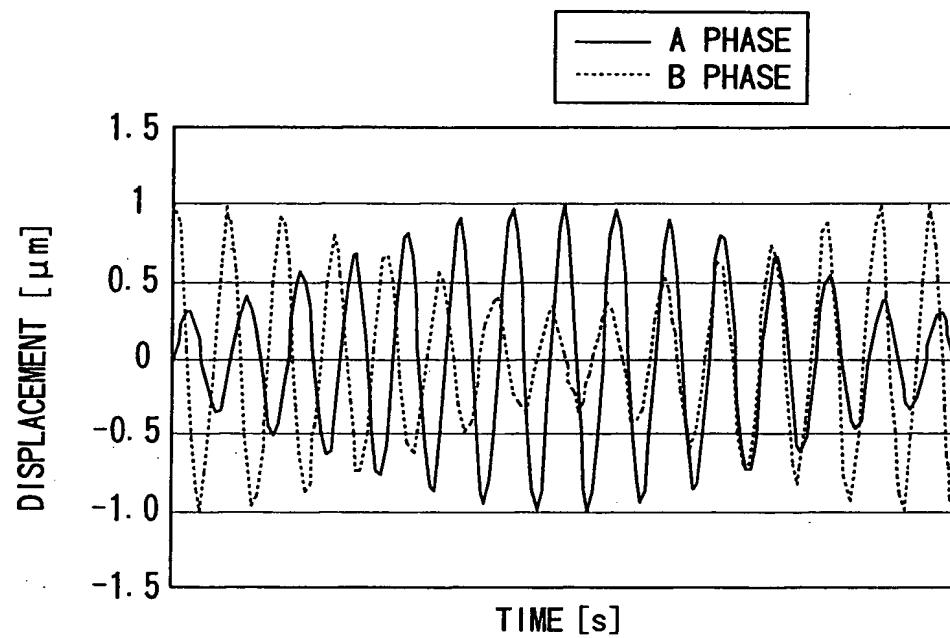


FIG.3

$$A = (V+a) \cos \alpha \cos \omega t - V \sin \alpha \sin \omega t$$

$$B = (V+a) \sin \alpha \cos \omega t + V \cos \alpha \sin \omega t$$

A: A PHASE DRIVING VOLTAGE, B: B PHASE DRIVING VOLTAGE,

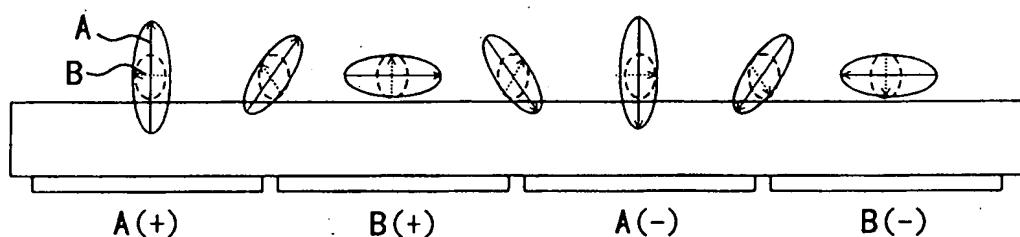
V: DRIVING VOLTAGE (FUNDAMENTAL VOLTAGE), a: STANDING WAVE AMPLITUDE,

$\alpha$ : TURNING ANGLE,  $\omega$ : DRIVING ANGULAR VELOCITY

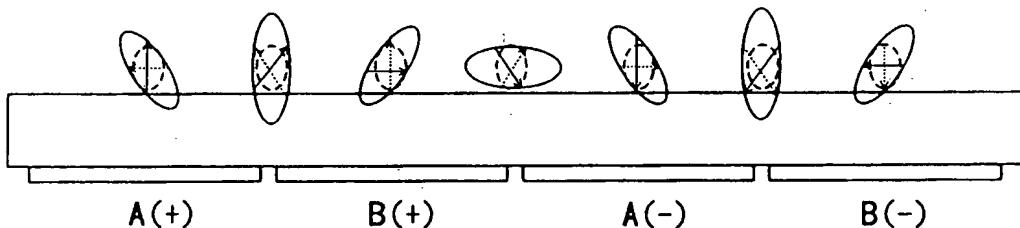
REPLACEMENT SHEET

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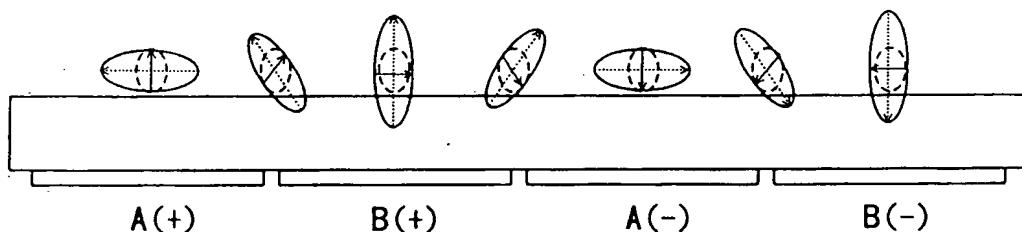
**FIG.4A**



**FIG.4B**



**FIG.4C**



**FIG.4D**

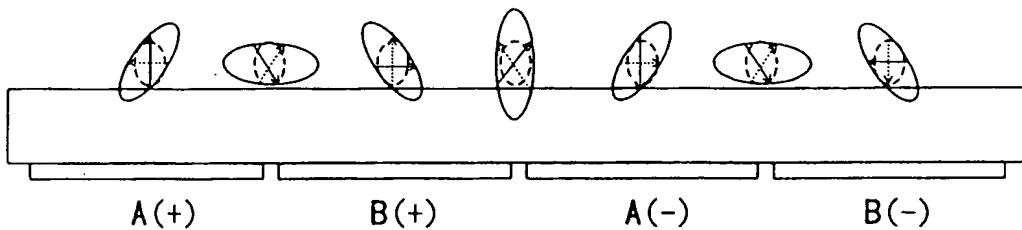
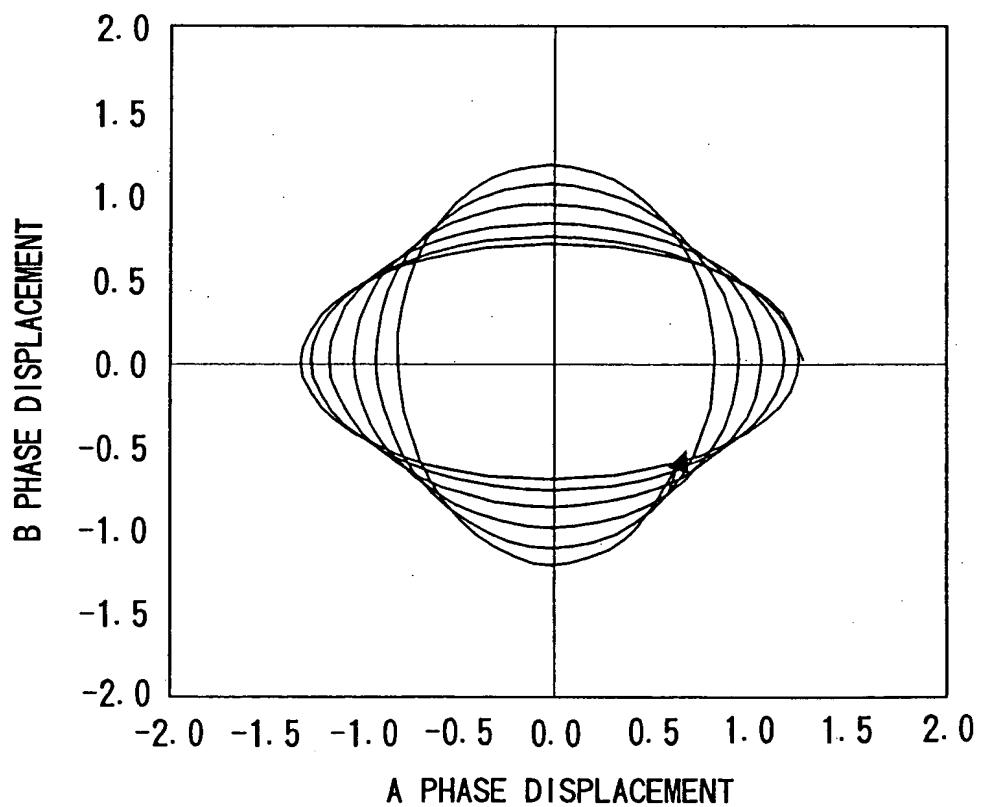


FIG.5



## FIG.6

$$A = (V + a \cos \phi) \cos \omega t$$

$$B = (V - a \cos \phi) \sin \omega t$$

A:A PHASE DRIVING VOLTAGE, B:B PHASE DRIVING VOLTAGE,

a:MODULATION AMPLITUDE,  $\phi$ :MODULATION PHASE,

$\omega$ :DRIVING ANGULAR VELOCITY,

V:DRIVING VOLTAGE(FUNDAMENTAL VOLTAGE)

## FIG.7

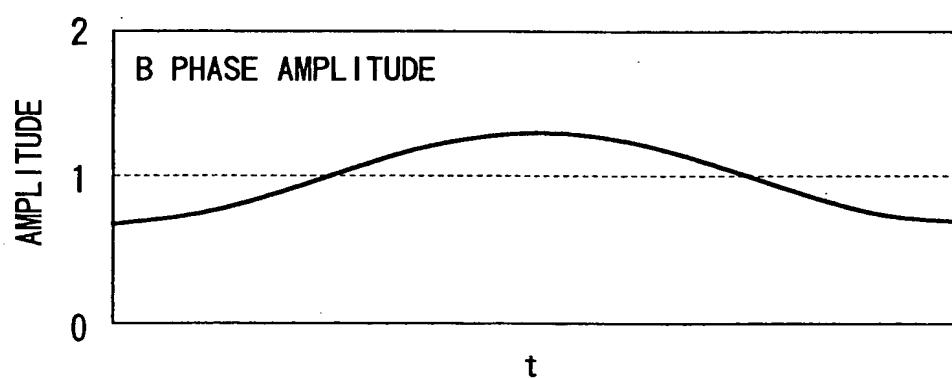
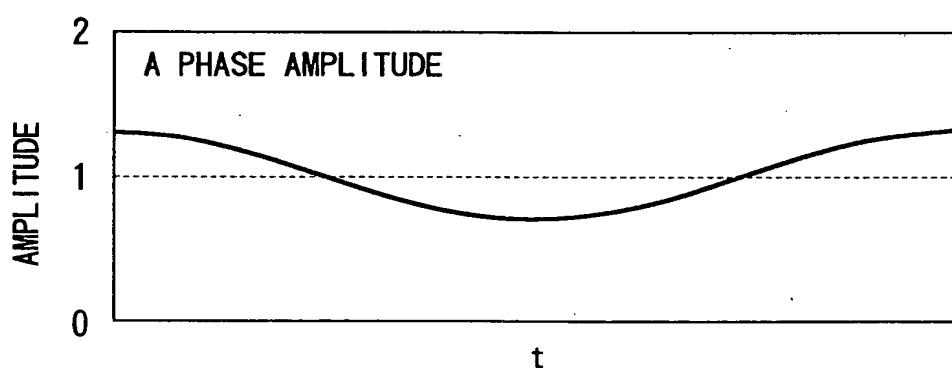


FIG.8

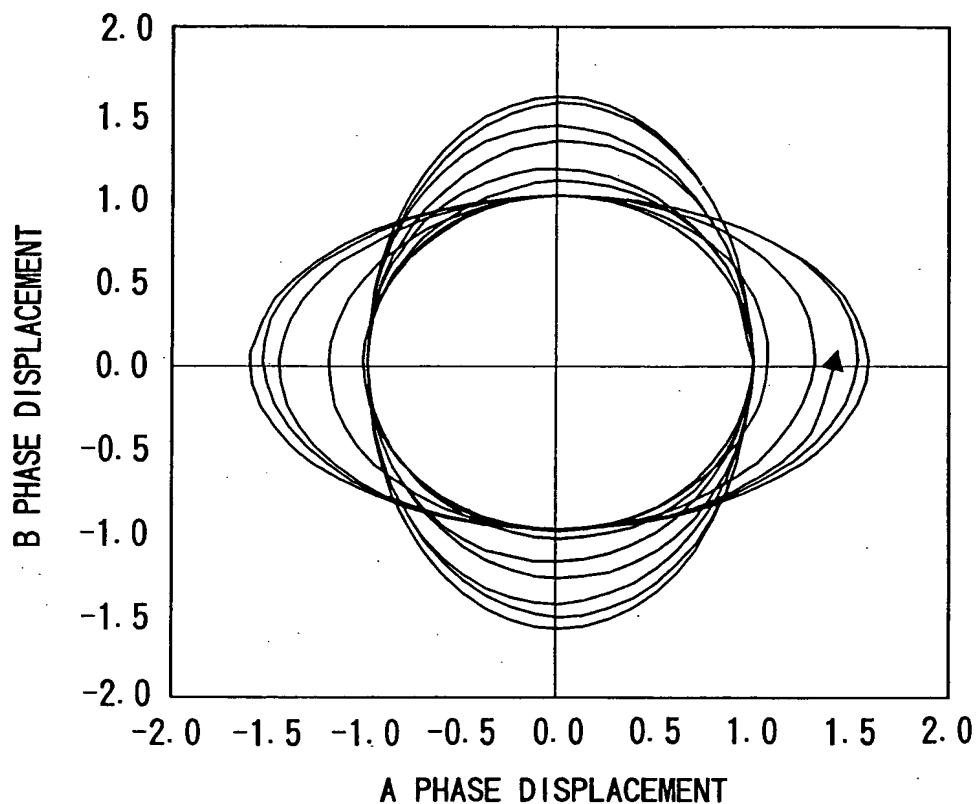
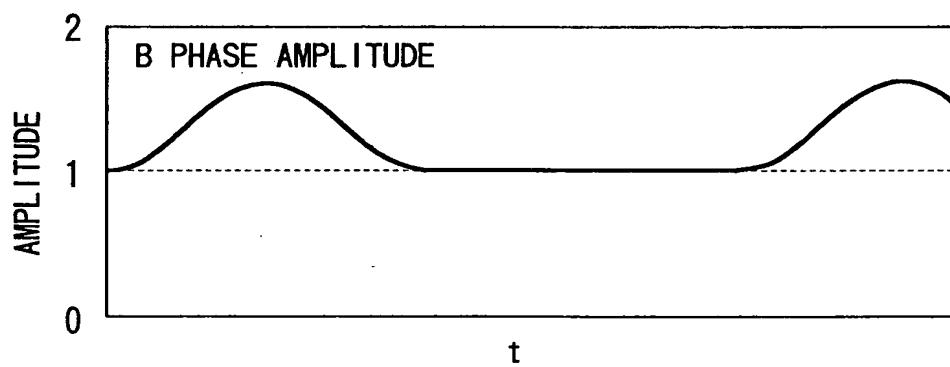
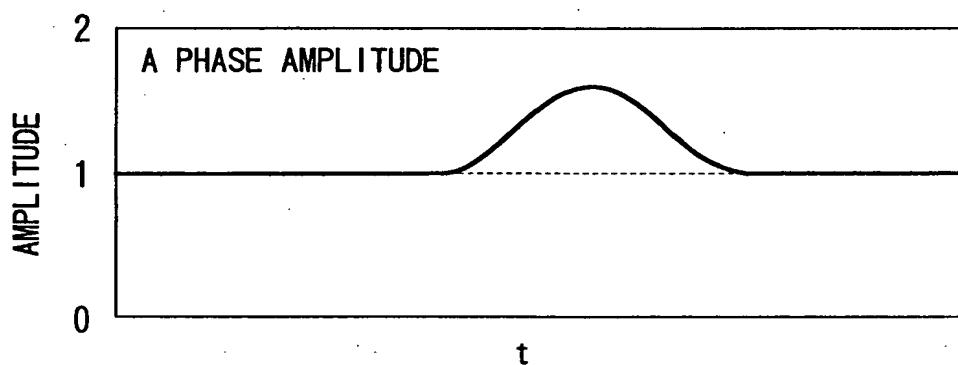


FIG.9



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FIG.10

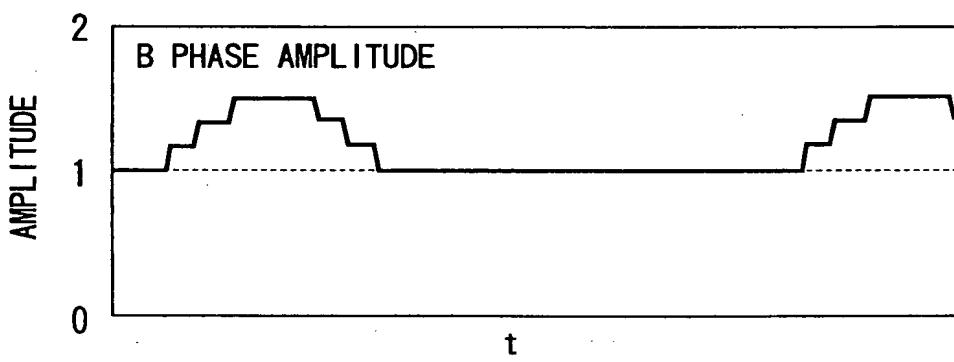
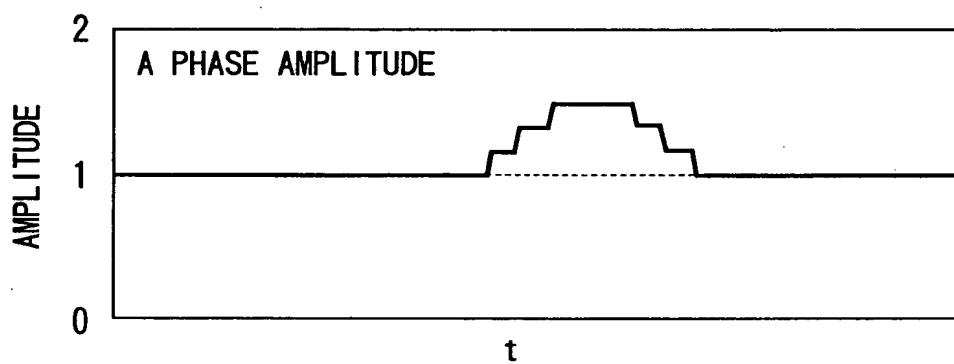
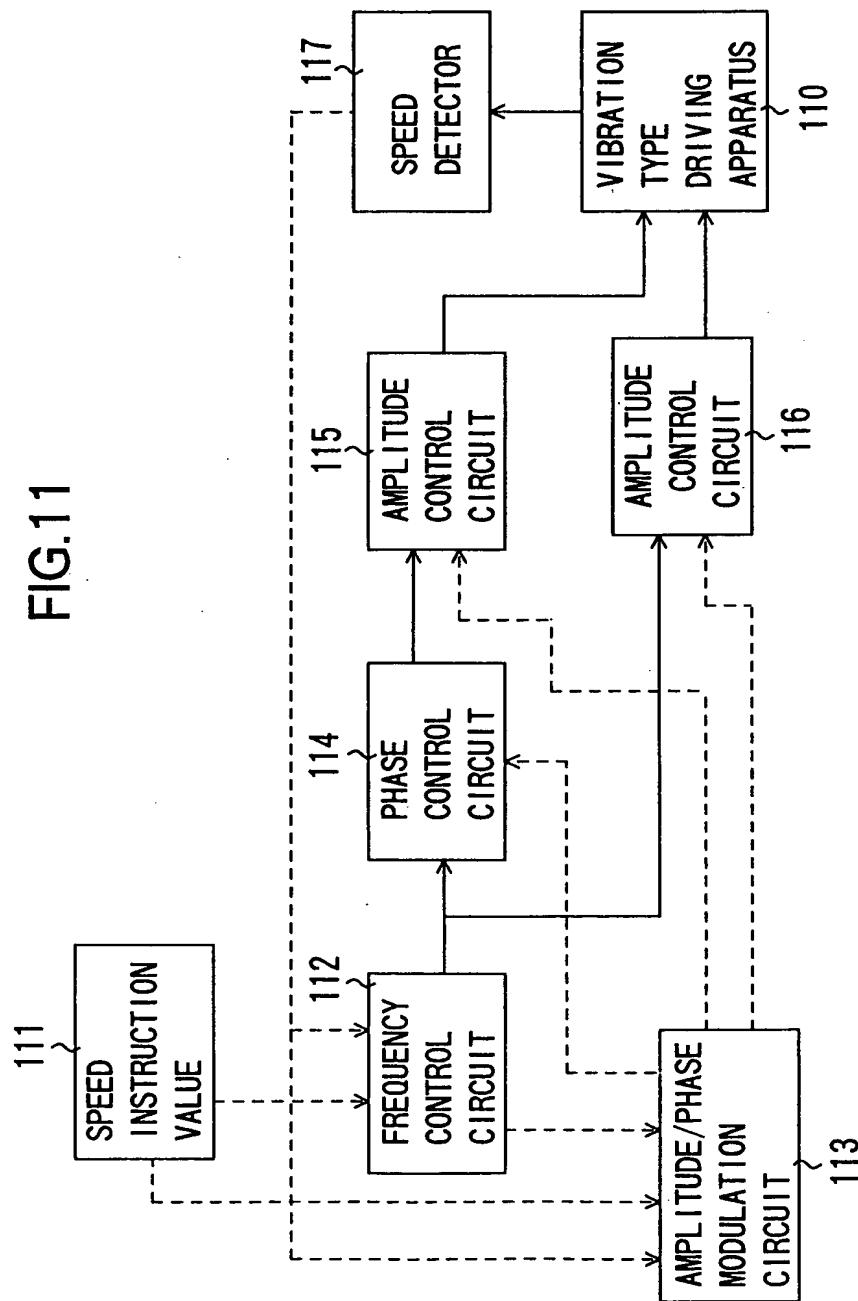
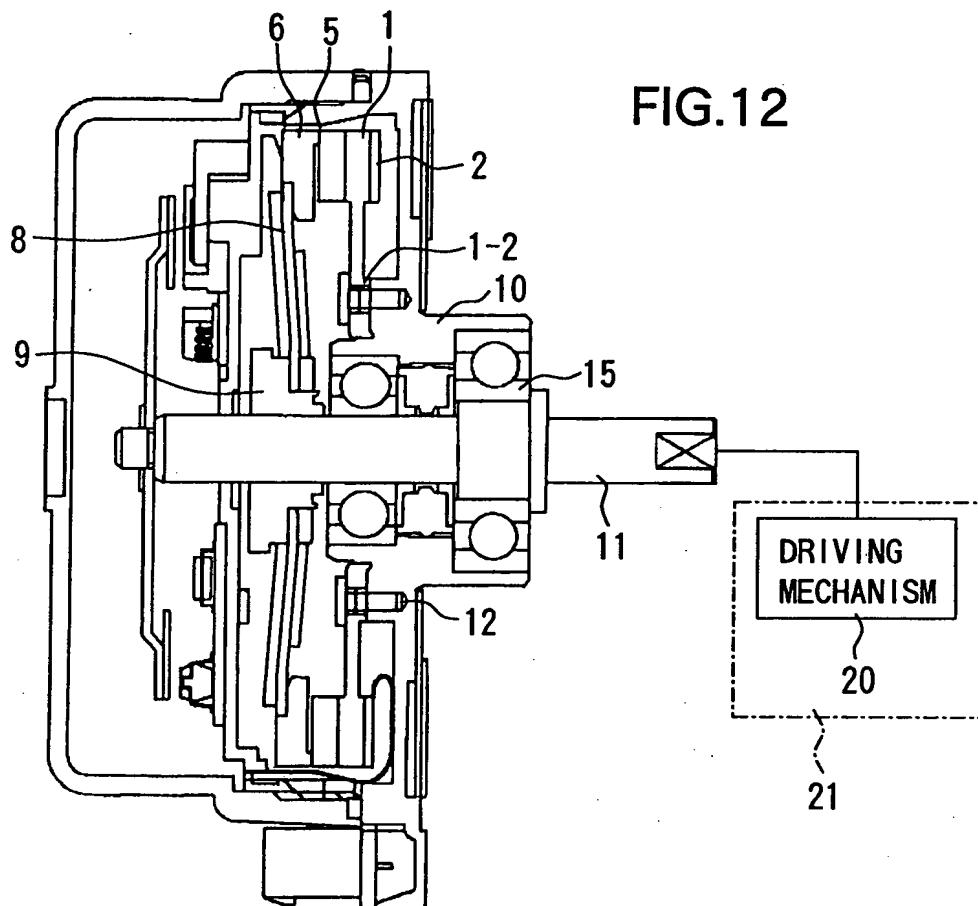
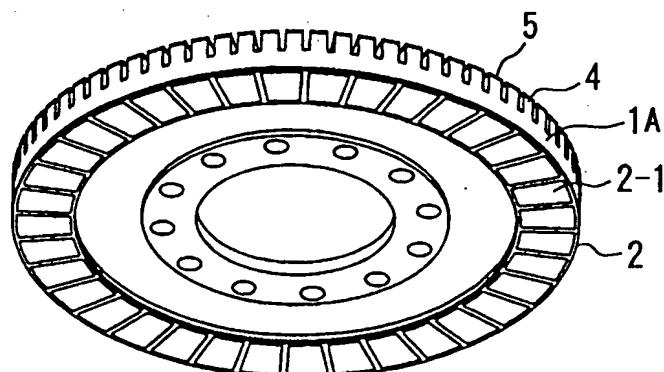


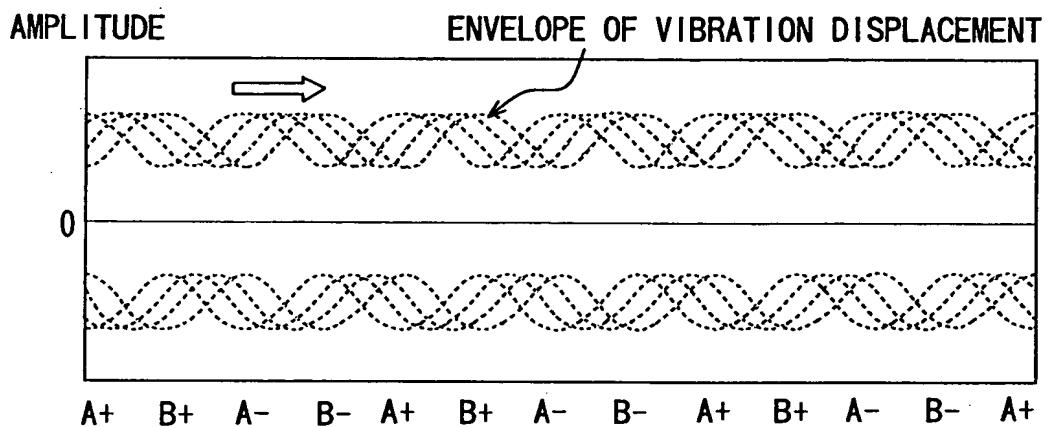
FIG.11



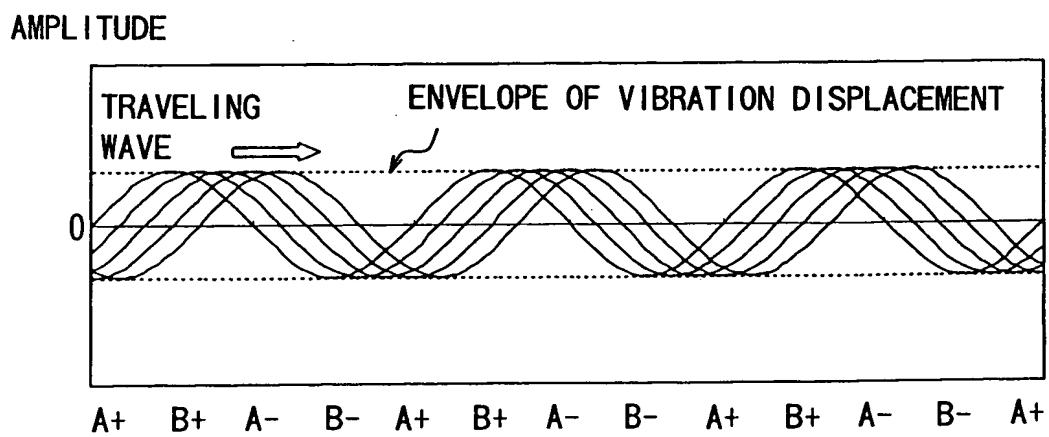


**FIG.13**





**FIG. 14**



**FIG.15  
(PRIOR ART)**

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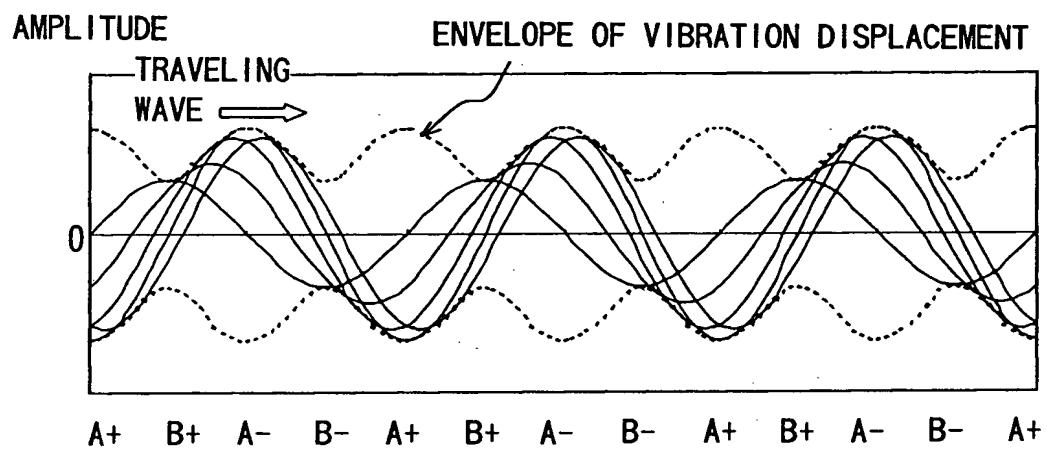
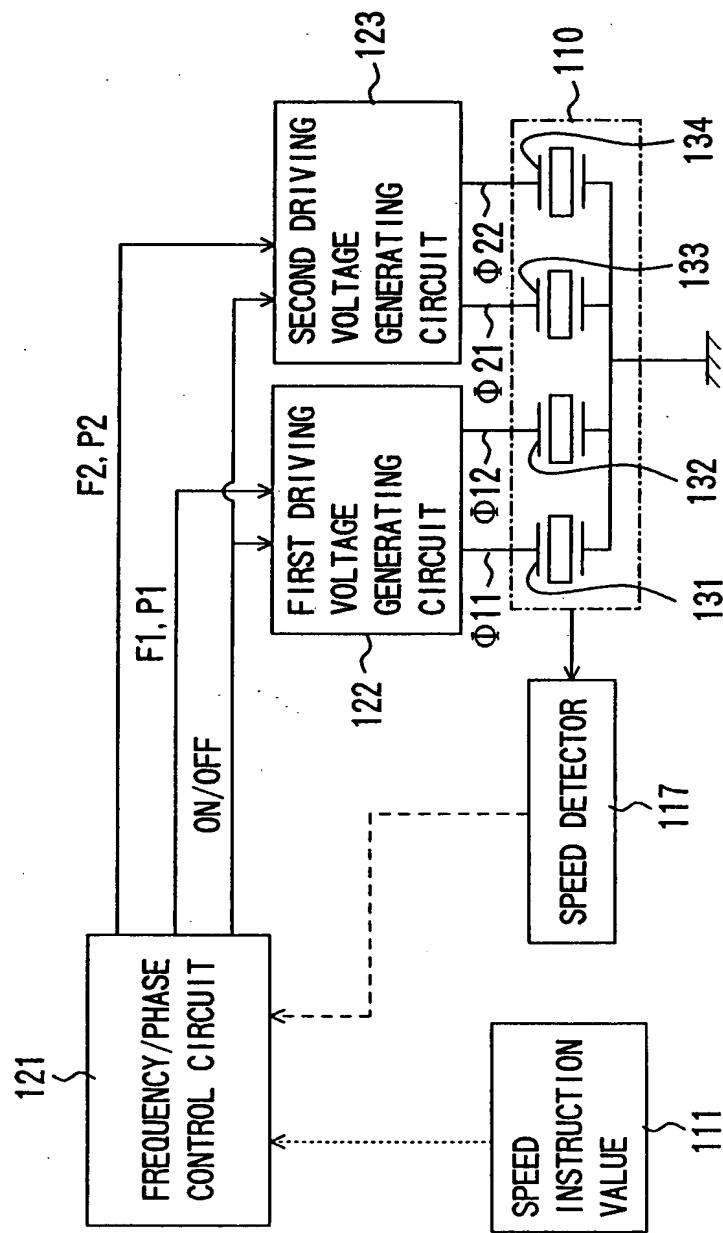
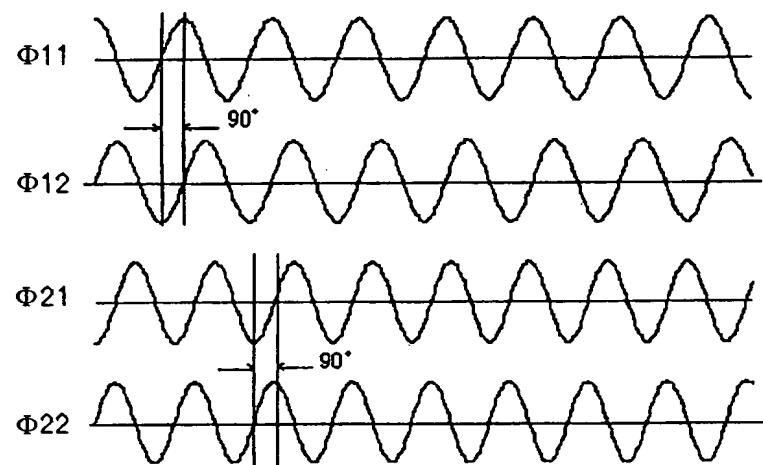


FIG.16  
(PRIOR ART)

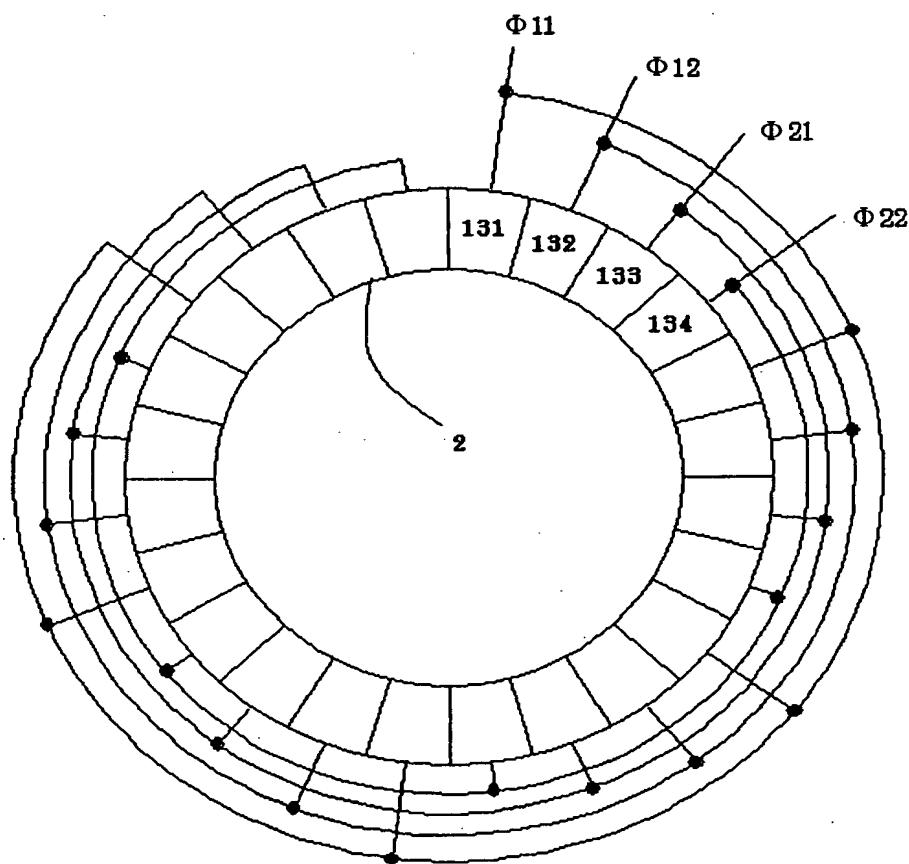
FIG.17



**FIG.18**



**FIG.19**



**FIG.20**

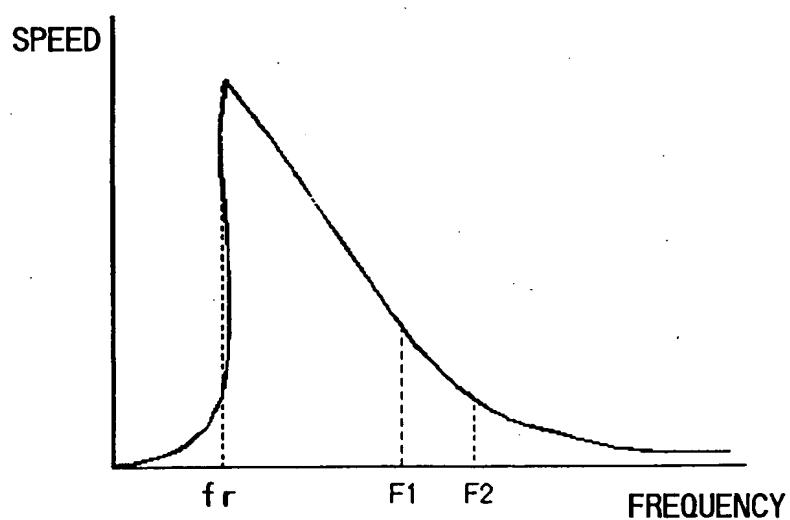


FIG.21

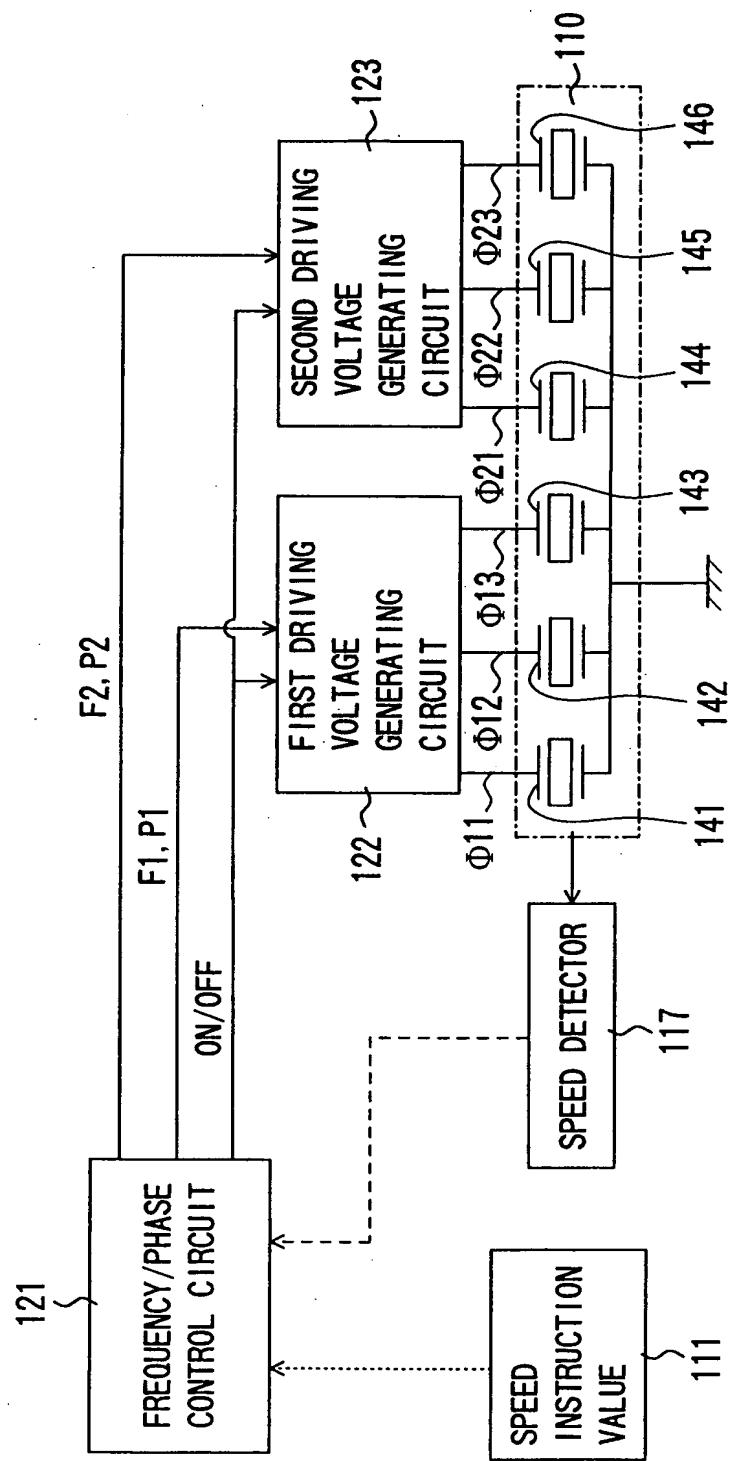


FIG.22

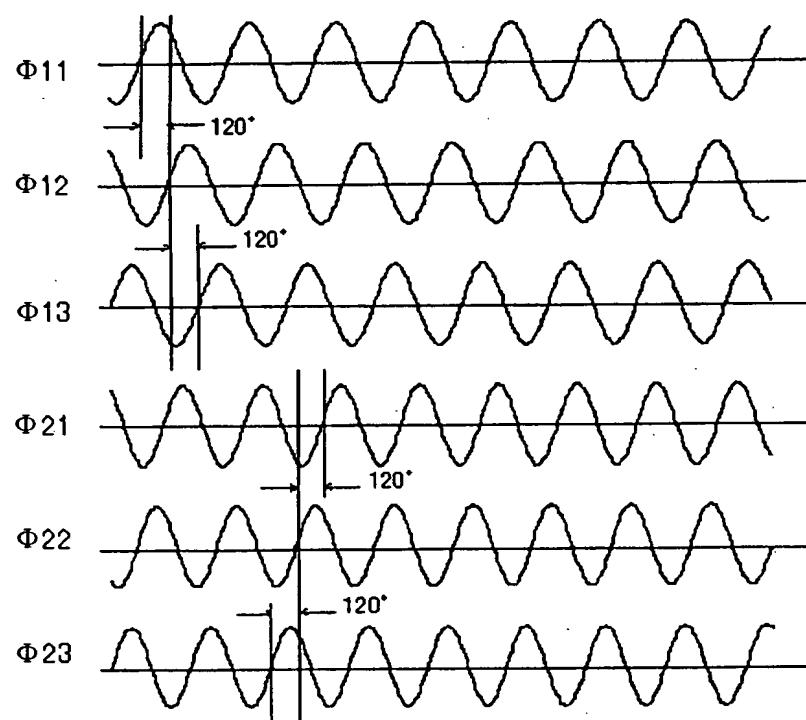


FIG.23

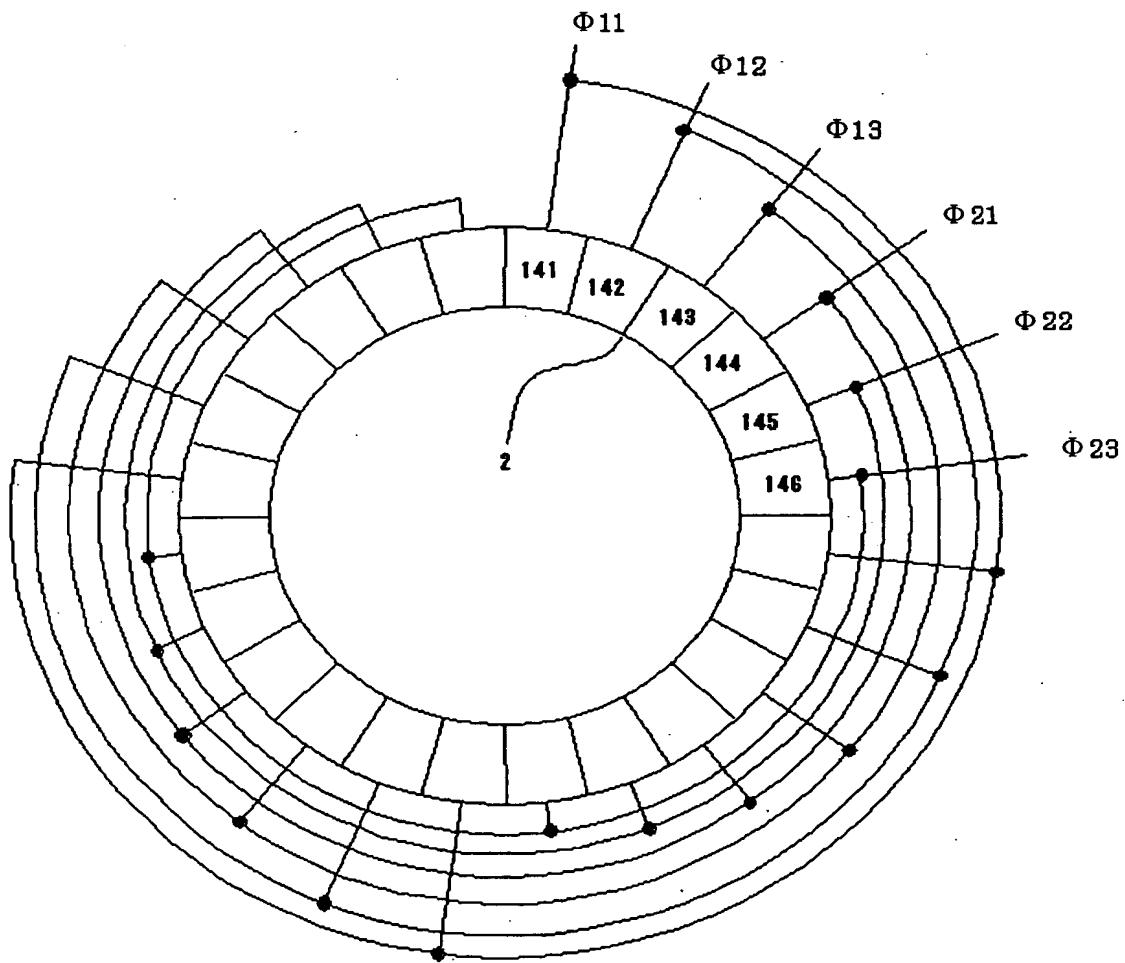
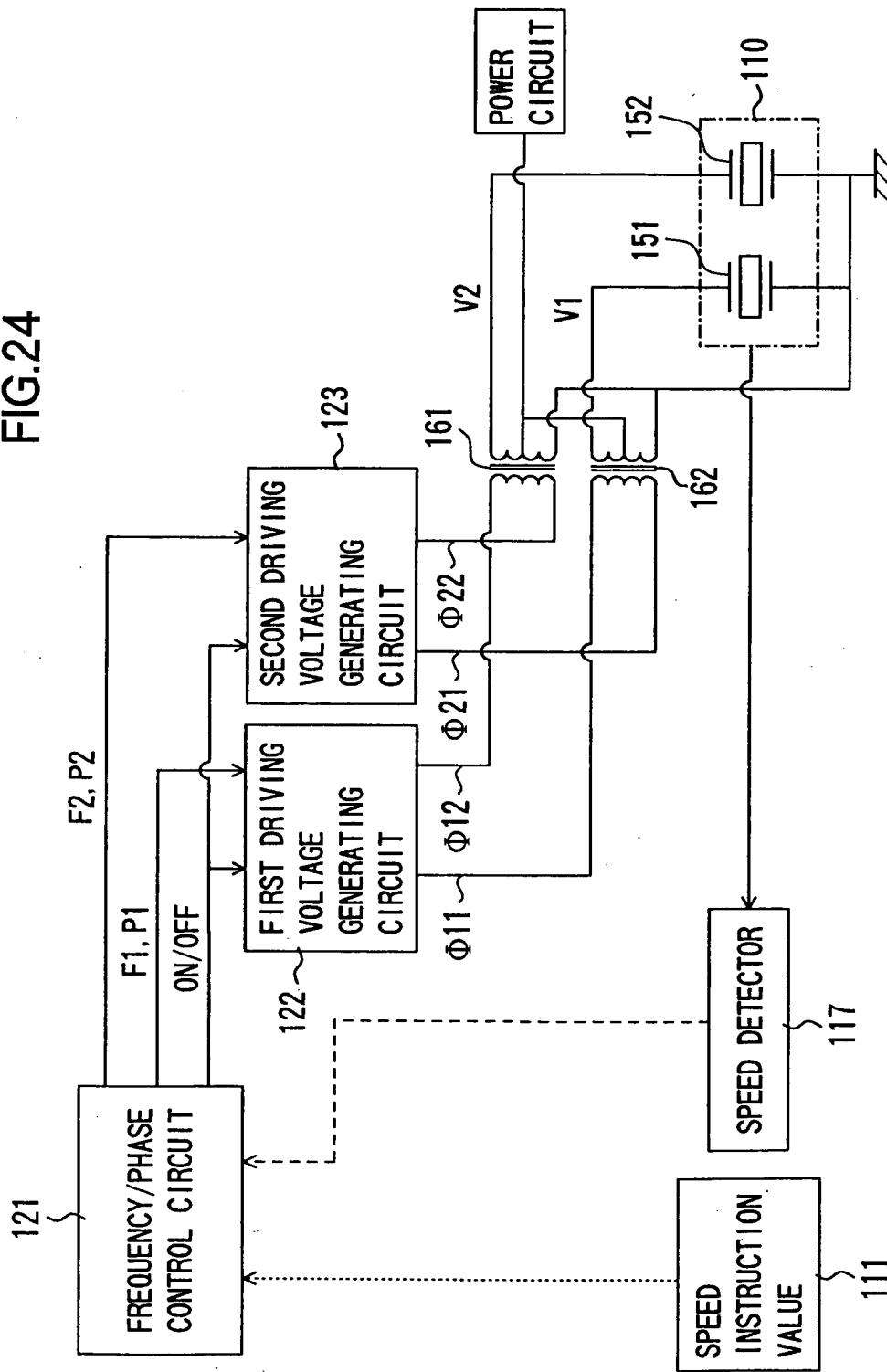


FIG.24



**FIG.25**

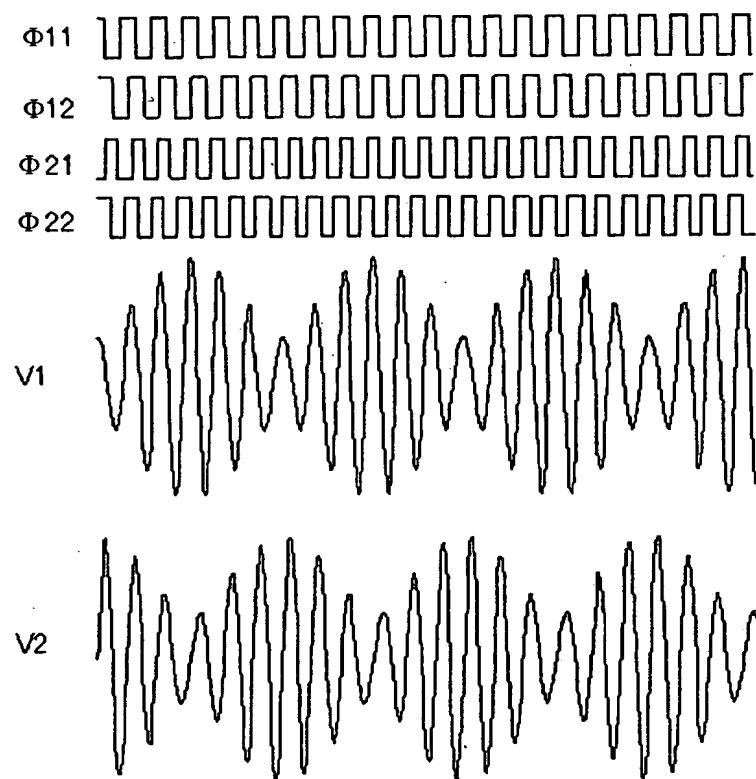


FIG.26

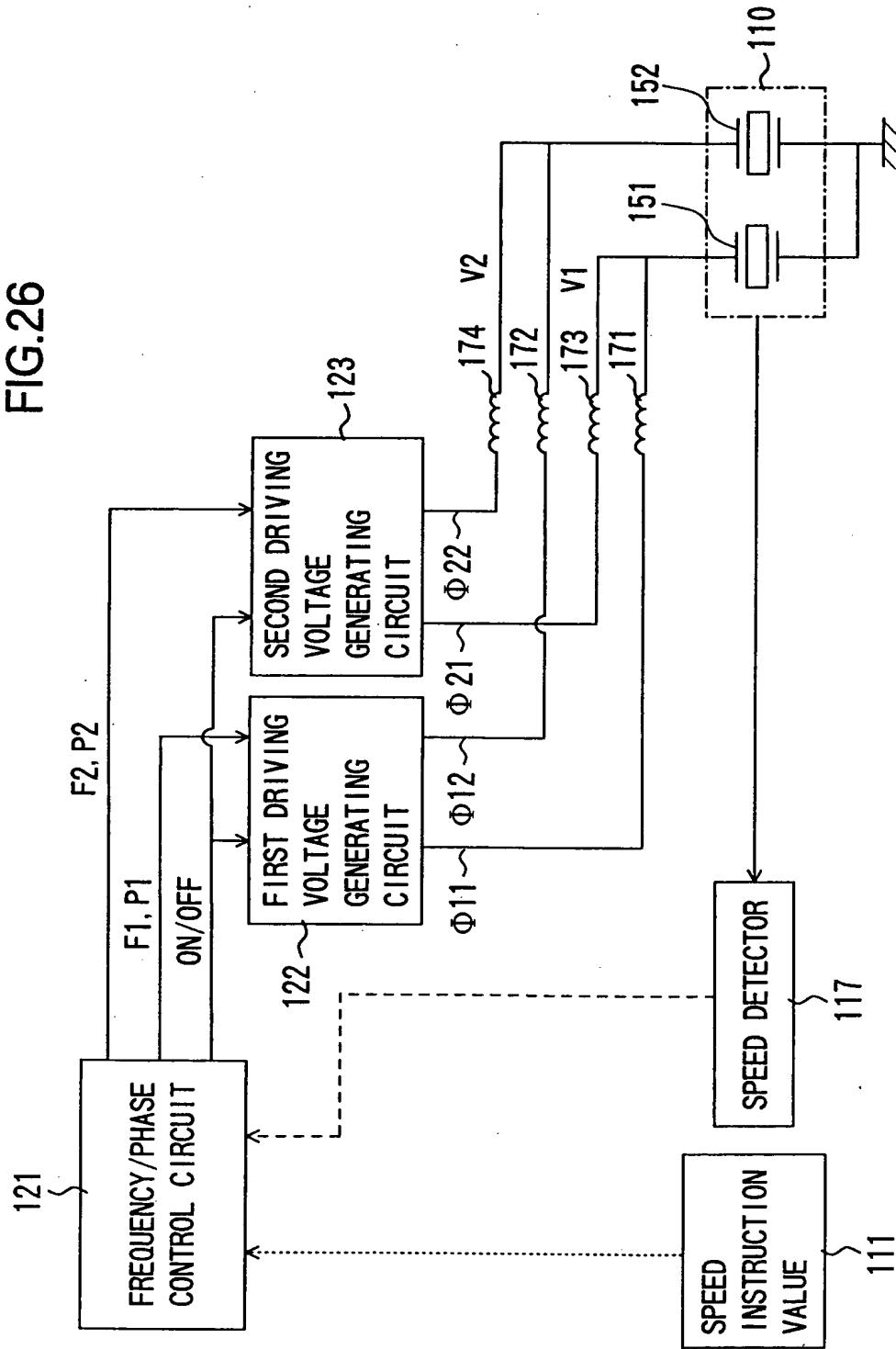


FIG.27

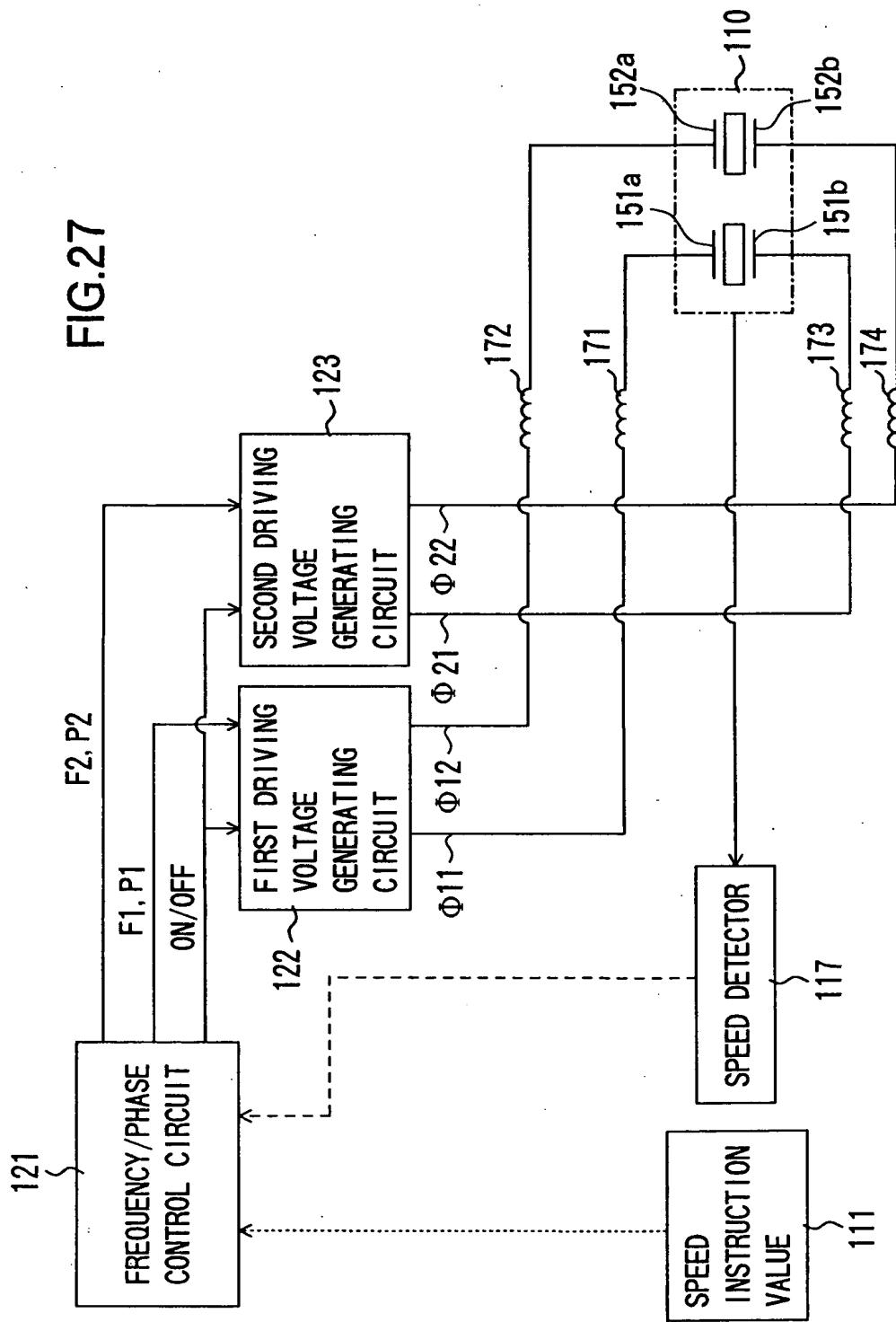
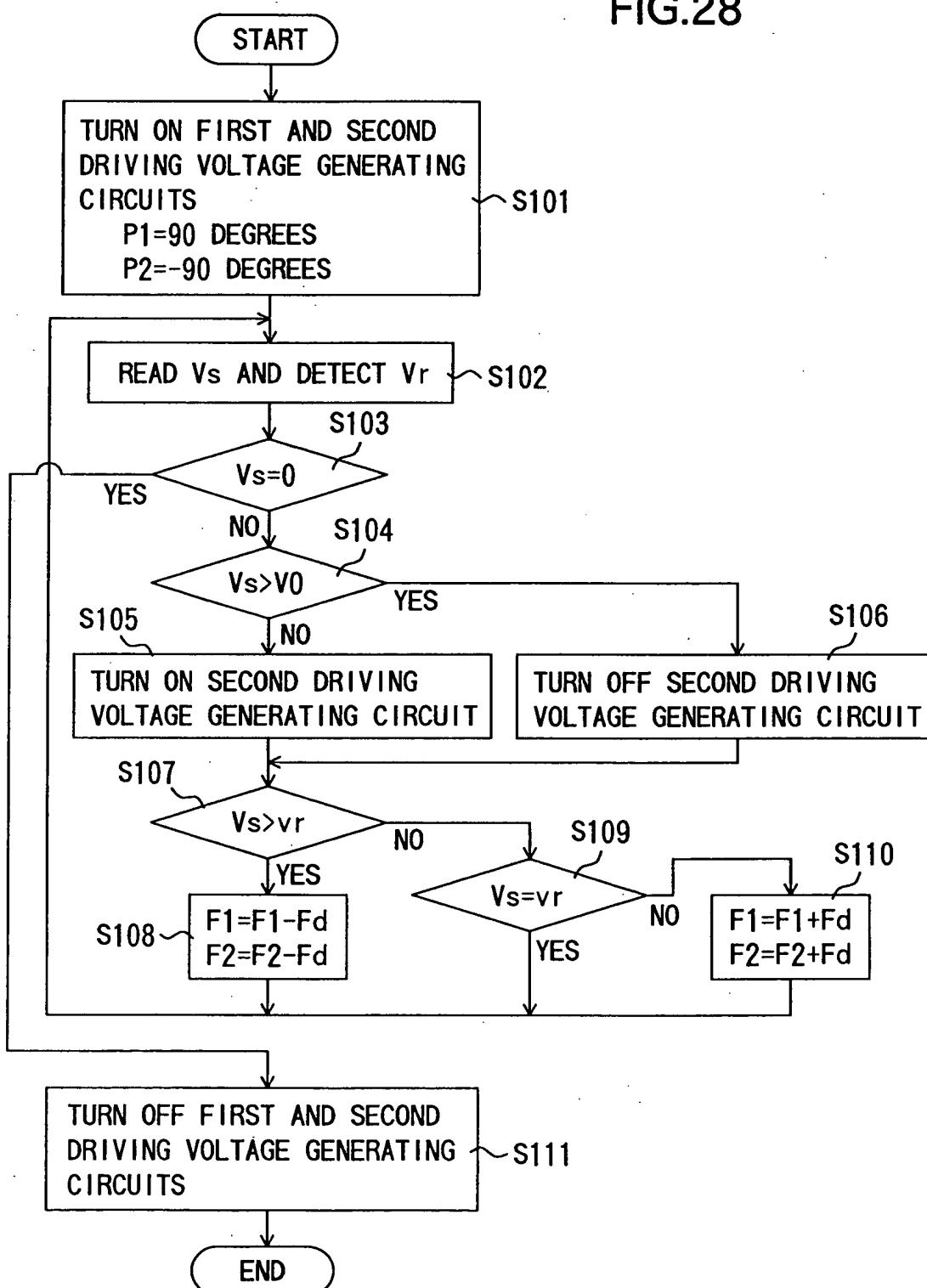


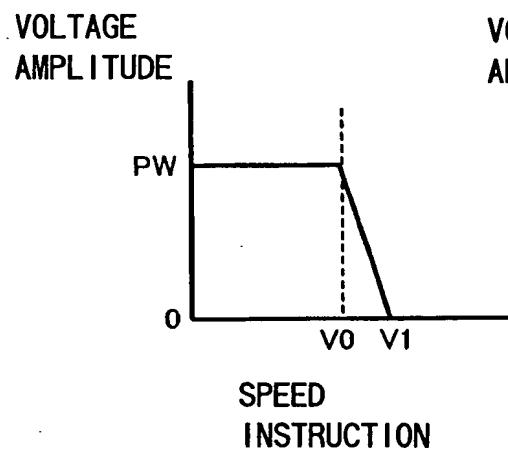
FIG.28



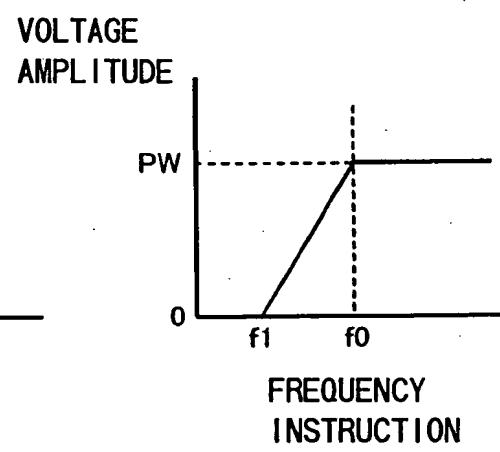
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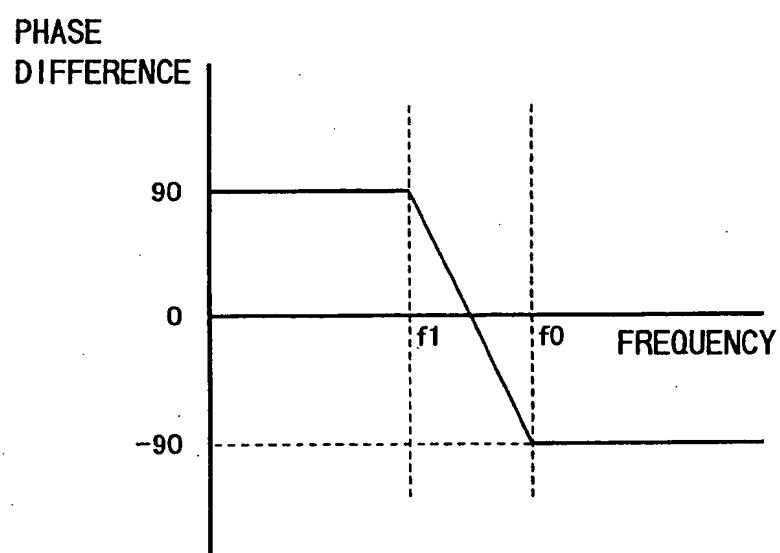
**FIG.29A**



**FIG.29B**



**FIG.30**



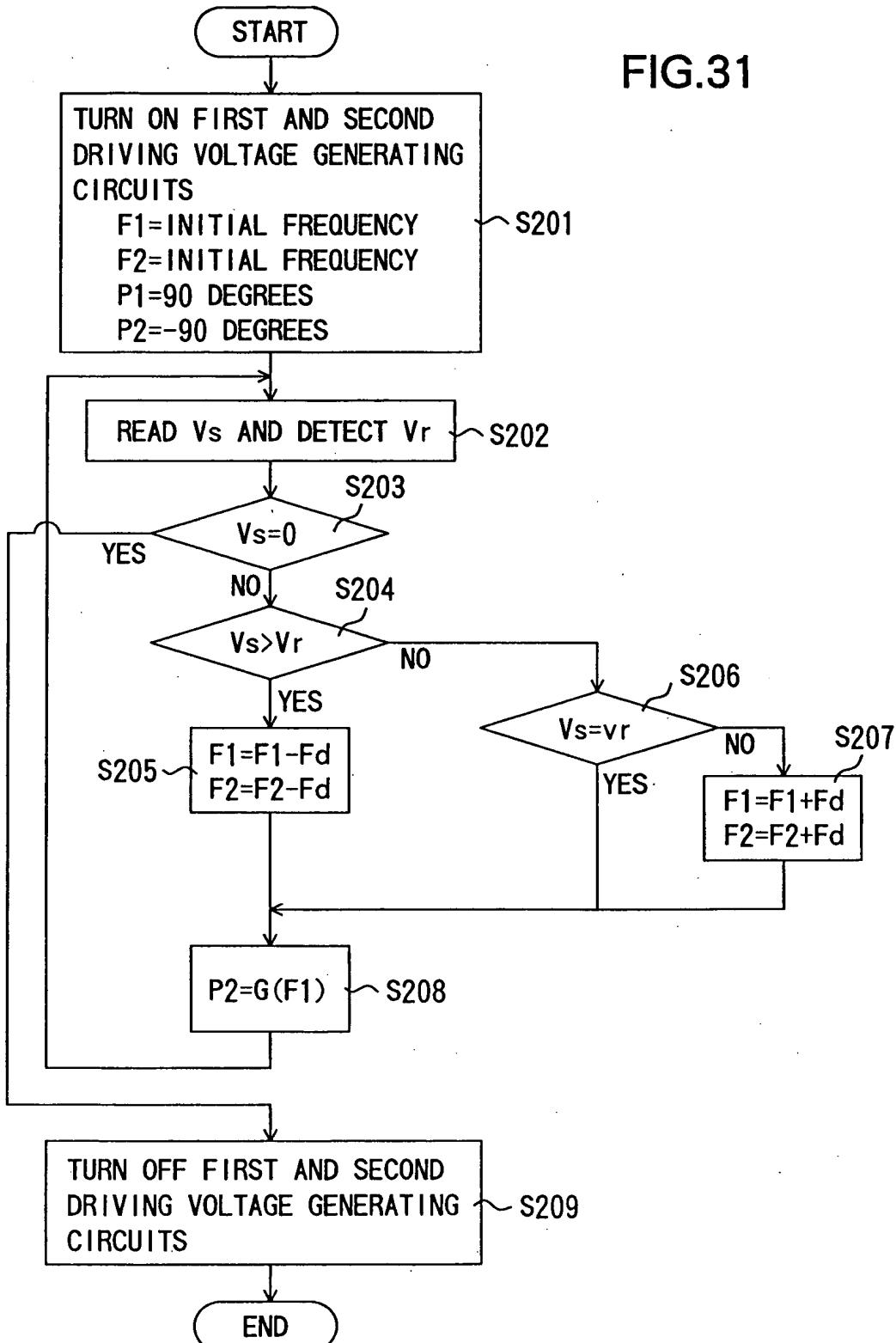


FIG.32

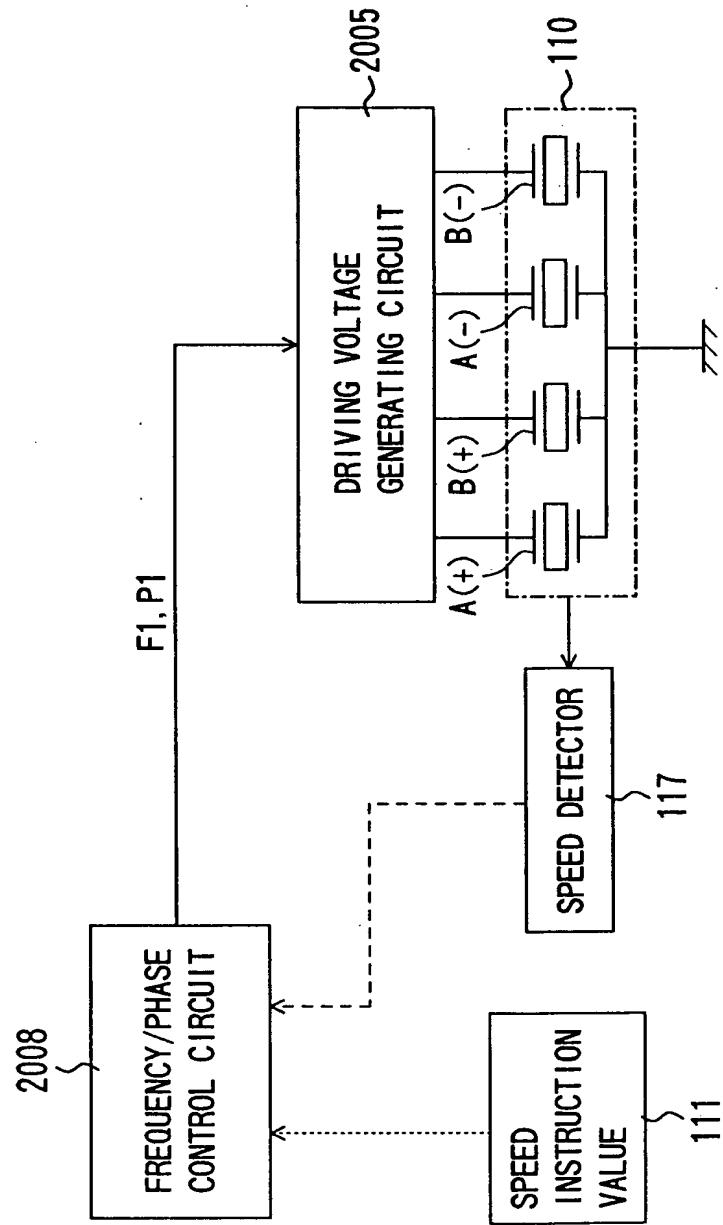


FIG.33

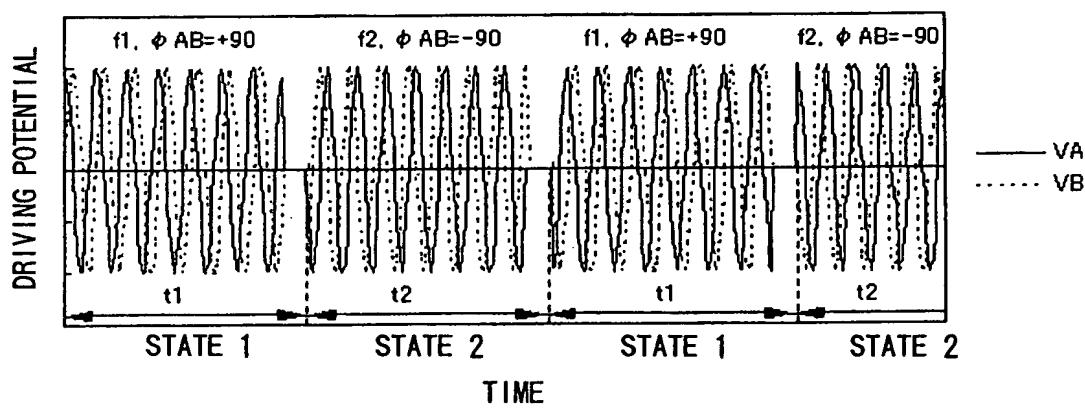


FIG.34A

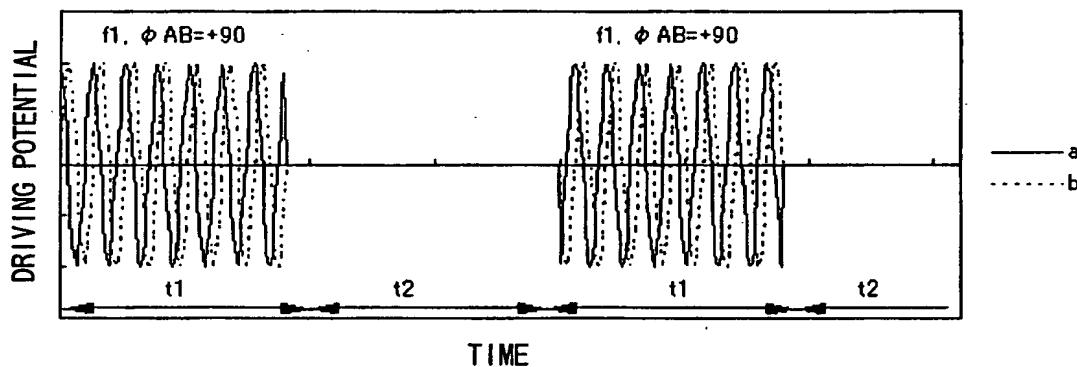
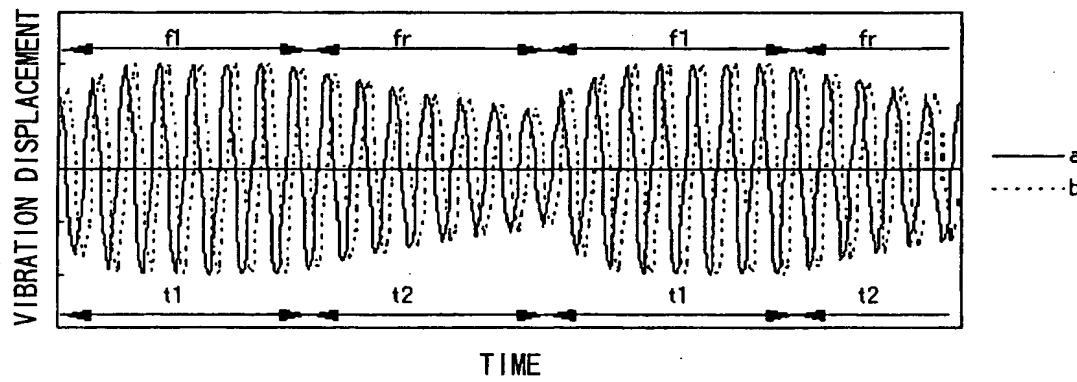
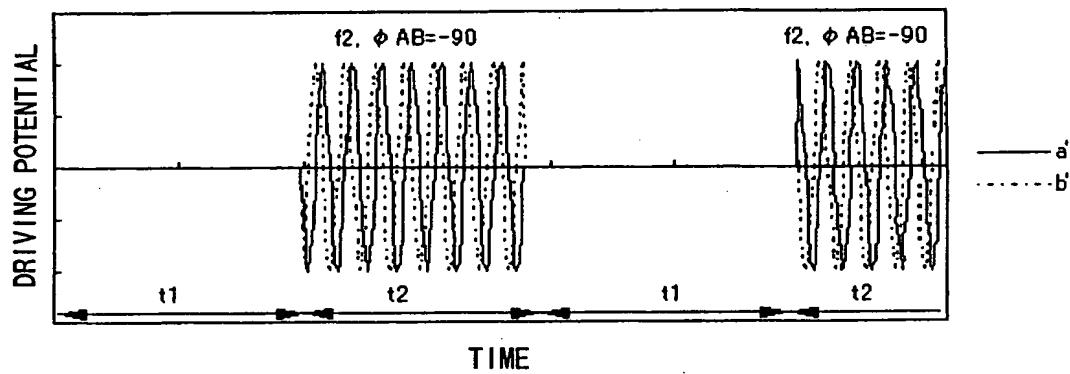


FIG.34B



**FIG.35A**



**FIG.35B**

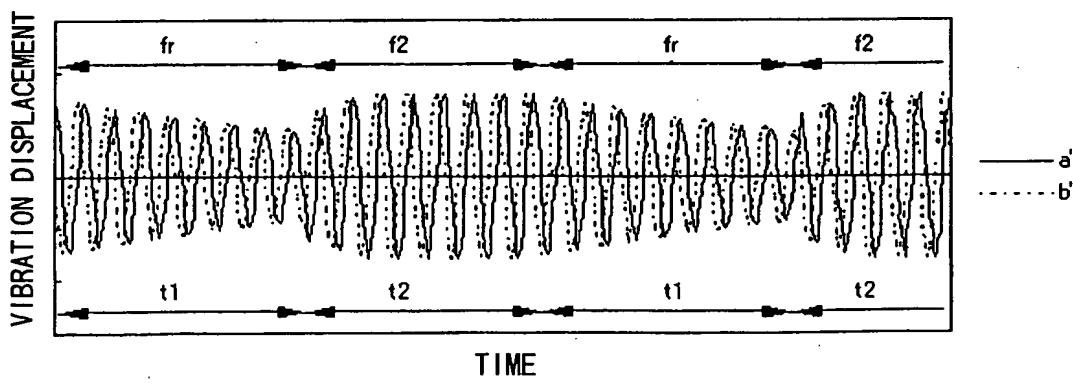


FIG.36

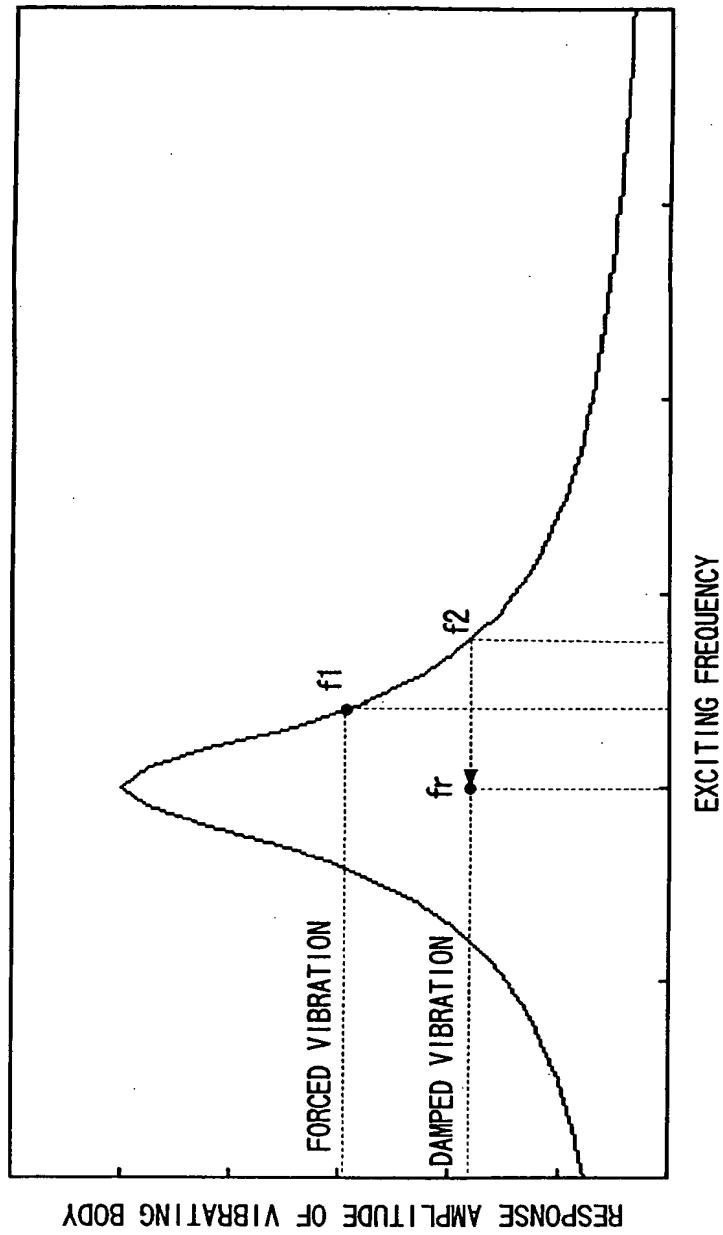


FIG.37

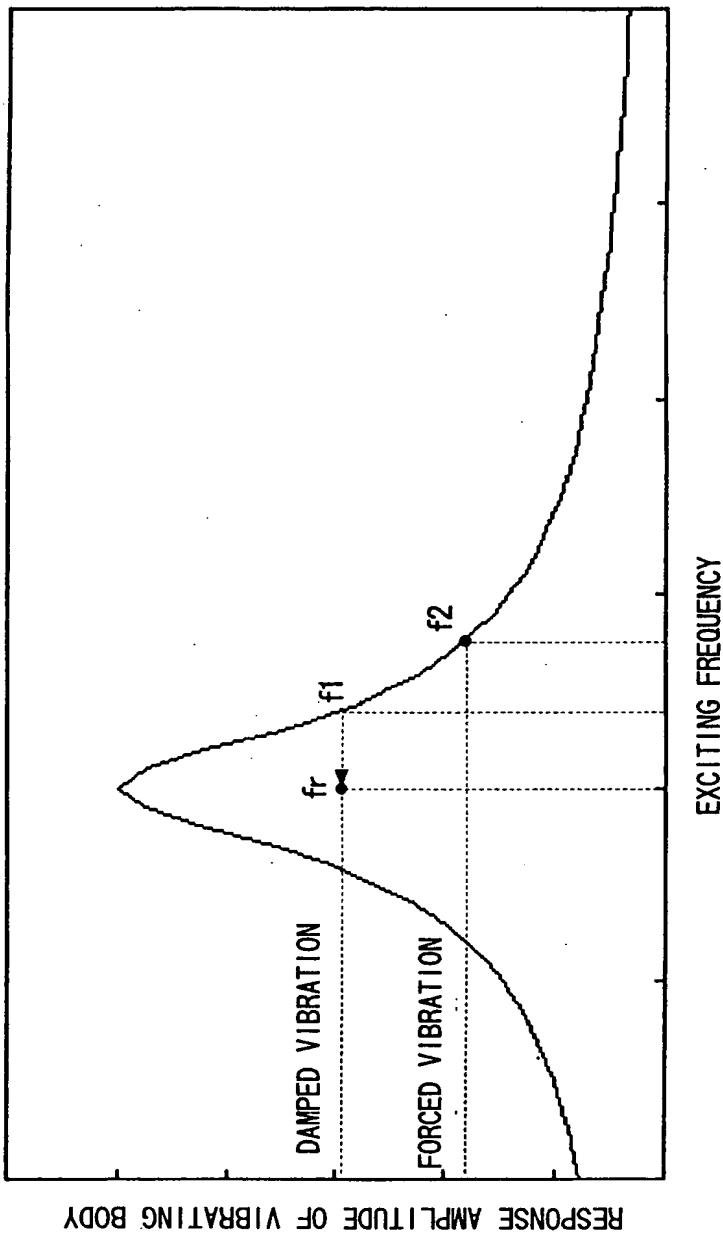


FIG.38

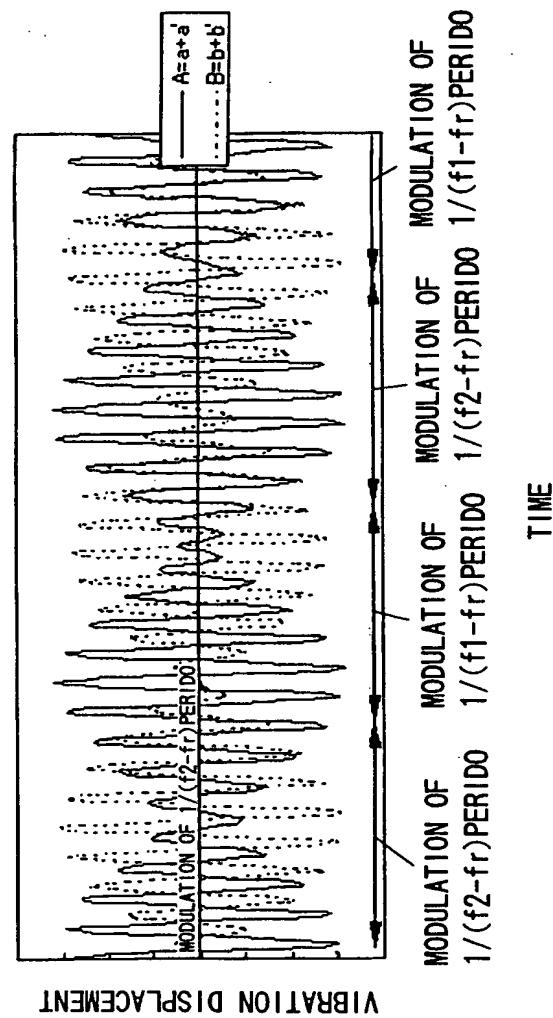


FIG.39

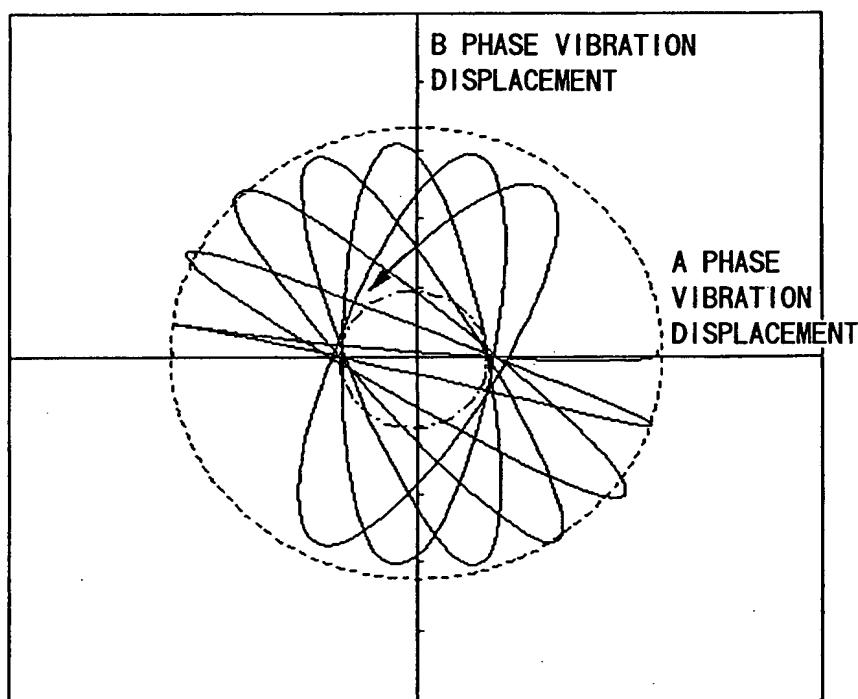


FIG.40

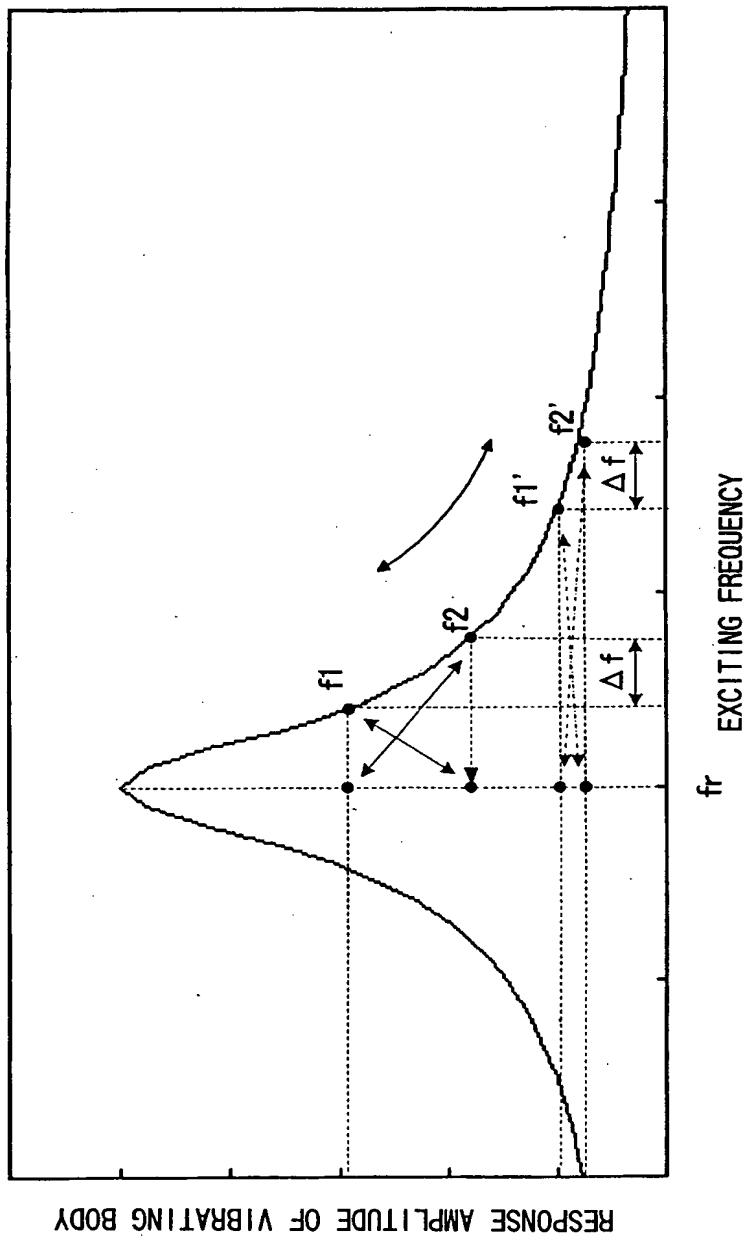
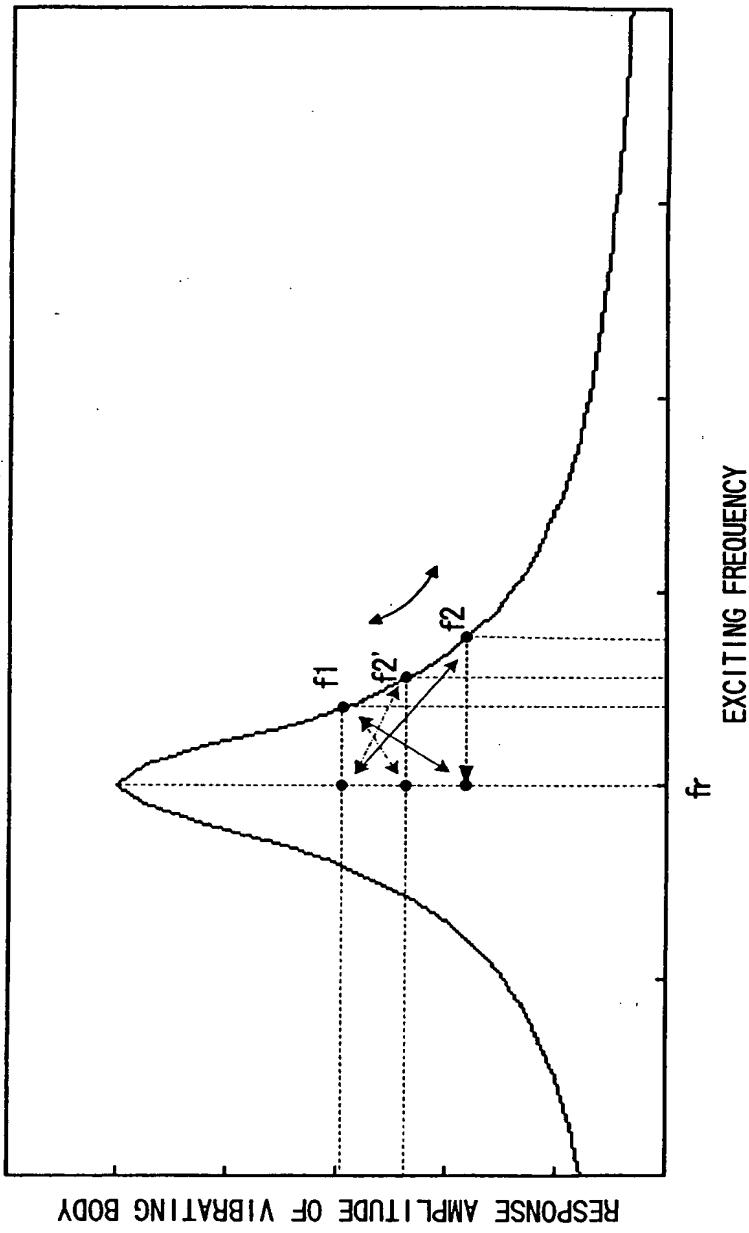


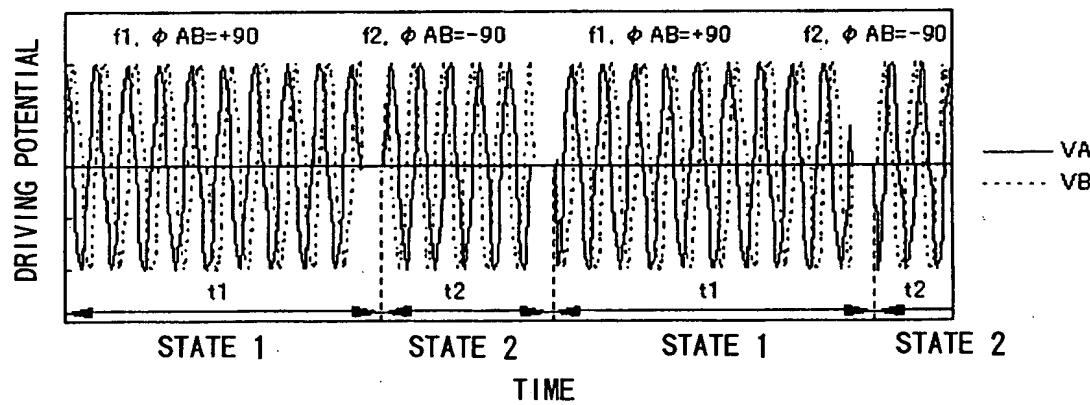
FIG.41



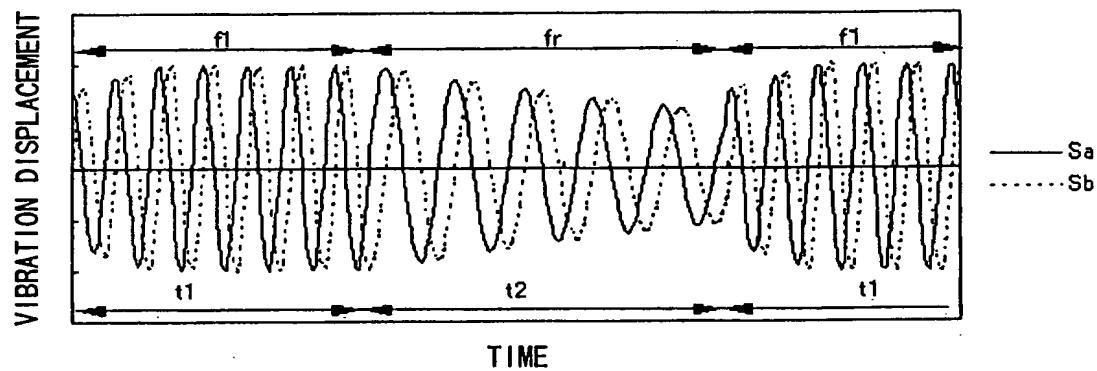
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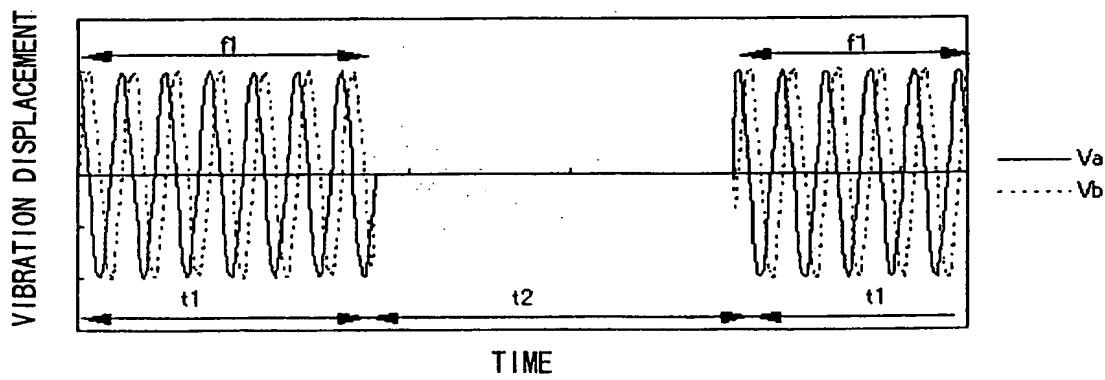
FIG.42



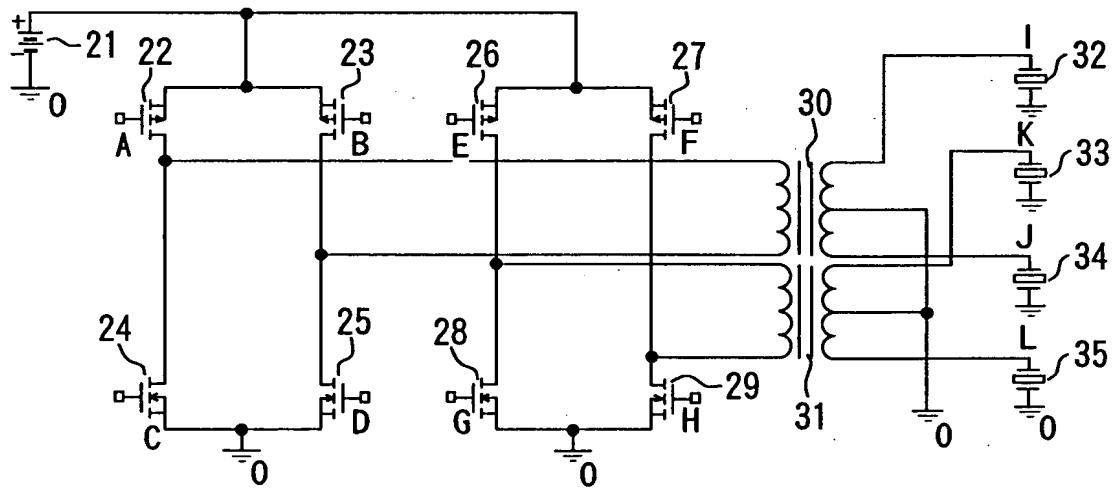
**FIG.43A**



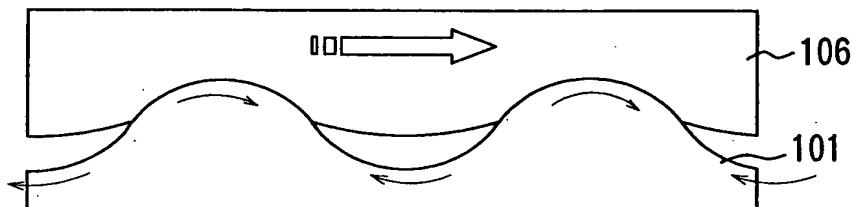
**FIG.43B**



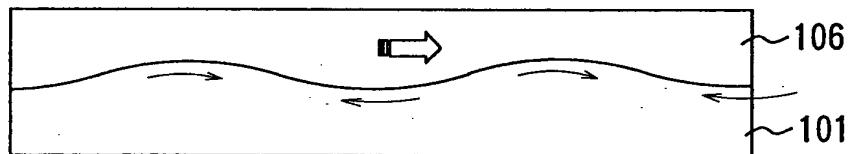
**FIG.44  
(PRIOR ART)**



**FIG.45A  
(PRIOR ART)**



**FIG.45B  
(PRIOR ART)**



**FIG.46  
(PRIOR ART)**

